wind storm passed over Madison and this place on the 19th. The hail-stones were as large as hen's eggs, and were destructive to corn and other crops.

Sharpsburg, Alleghany county, Pennsylvania: on the 22d, at 7.30 p. m., an unusually heavy hail storm occurred at De Haven Station, on the Pittsburg and Western Railroad.

Grafton, Walsh county, Dakota: on the afternoon of the 24th a disastrous thunder and hail storm passed over this vicinity. The storm travelled eastward, and from Saint Thomas across the Red River into Minnesota, it passed over an area five miles in width and thirty in length. Within this space hail-stones fell as large as hen's eggs and were unusually destructive. The wheat crop on 250,000 acres is reported to have been entirely destroyed, leaving many farmers destitute. Several persons were severely injured.

Saint Vincent, Minnesota: a very heavy thunder-storm accompanied by rain and hail, occurred here on the afternoon of the 24th; serious injury was sustained by all kinds of vege-

tation.

Warren, Marshall county, Minnesota: this county was visited by a destructive hail-storm on the night of the 24-25th. The storm commenced at the town of Argyle, and passed over the towns of Middle River, Alma, Toldol, and Comstock. Hail as large as hen's eggs fell for about twenty minutes, destroying grain and breaking windows. It is reported that 25,000 acres of grain were destroyed in the vicinity of Mayville.

Sharon, Mercer county, Pennsylvania: on the afternoon of the 29th a destructive hail storm occurred in this county. Corn and other crops were in many places completely ruined.

Williamsport, Lycoming county, Pennsylvania: on the afternoon of the 29th a hail storm of great severity visited the western part of this county. Hail fell in great quantities, and many of the stones were as large as hen's eggs.

Hail was also reported to have fallen in the various states and territories on the following dates:

Arkansas.-Little Rock, 10th.

Colorado.—Pike's Peak, 2d, 17th, 19th; Montrose, 12th. Connecticut.—New Haven, 18th; Southington, 29th.

Dakota.-Webster, 2d; Bismarck, Fort Totten, and Fort Yates, 3d; Fort Meade, 6th.

Illinois.—Pekin, 9th; Windsor, 9th, 14th; Chicago, 13th. Indiana.—Logansport, 12th; Lafayette, 12th, 13th. Iowa.—Keokuk, 9th; West Union, 12th. Kansas.—Salina, 7th; Allison, 18th. Kentucky.—Louisville and Frankfort, 14th.

Maine.—Portland, 19th.

Massachusetts.—Heath, 26th, 27th; Edgartown and Princeton,

Michigan.-Detroit and Grand Haven, 13th.

Missouri.—Central College, 13th.

Montana.—Fort Assinaboine and Helena, 4th.

Nebraska.—Valentine, 27th; Hay Springs, 30th. Nevada.—Carson City, 16th, 19th. New Jersey.—Readington, 18th; Sandy Hook, 30th.

New York .- Penn Yan, 17th; White Plains and Factoryville, 18th; Ithaca and Menand's Station, 29th.

Ohio.-North Lewisburg, 7th; Cincinnati, Yellow Springs and Tiffin, 14th; Cleveland, 13th, 14th, 29th; Columbus and Garretsville, 17th; Hiram, 17th, 26th.

Oregon .- Roseburg, 19th.

Pennsylvania.—Pittsburg, 17th; Wellsborough and Eastbrook, 17th, 26th.

South Carolina.-Stateburg, 12th, 14th; Spartanburg, 14th. Tennessee .- Nashville, 10th; Knoxville, 10th, 14th; Austin, 13th.

Utah.—Frisco, 19th.

Vermont.—Strafford, 18th.
Virginia.—University of Virginia, 8th, 23d; Dale Enterprise, 14th, 25th; Wytheville, 8th, 14th; Chincoteague, 23d; ariety Mills, 27th.

West Virginia .- Clarksburg, 13th. Wisconsin.-Madison, 10th, 11th, 19th.

SLEET.

Sleet occurred at Pike's Peak, Colorado, on the following dates: 4th to 7th, 12th, 16th, 20th, 21st, 22d, 25th, 27th, 31st: at Mount Washington, New Hampshire, on the 23d.

RAIN FROM A CLOUDLESS SKY.

The observor at Louisville, Kentucky, states that "on the 27th, at 12.30 a. m., the unusual phenomenon of rain from a cloudless sky was observed; light rain fell for ten minutes."

TEMPERATURE OF WATER.

The following table shows the highest and lowest temperatures of water observed at the several stations; the monthly ranges of water temperature; the average depth at which the observations were made; and the mean temperature of the air:

Temperature of water for July, 1886.

Atlantic City, New Jersey 77.0 69.4 7.6 Alpena, Michigan 72.6 63.5 9.1 Augusta, Georgia 86.0 70.4 16.4 Baltimore, Maryland 78.9 72.0 6.9 Block Island, Rhode Island 66.9 61.4 5.5 Boston, Massachusetts 68.7 63.1 5.6 Boston, Massachusetts 76.0 69.0 7.0 Cedar Keys, Florida 85.0 80.3 5.3 Charleston, South Carolina 85.1 60.4 4.7 Chicago, Illinois 72.7 67.0 5.7 Chineoteague, Virginia 84.1 72.0 12.1 Cleveland, Ohio 75.0 67.9 7.1 Detroit, Michigan 75.0 67.9 7.1 Detroit, Michigan 75.0 67.9 7.1 Eastport, Maine 51.3 46.6 4.7 Escanaba, Michigan 66.7 57.3 9.4 Galveston, Texas 88.8 84.1 4.7 Grand Haven, Michigan 74.5 61.0 13.5 Indianola, Texas 88.8 84.1 4.7 Grand Haven, Michigan 74.5 61.0 13.5 Indianola, Texas 89.5 82.7 6.8 Mackinaw City, Michigan 67.5 61.3 6.2 Macon, Fort, North Carolina 85.9 74.4 11.5 Macon, Fort, North Carolina 85.9 74.4 11.5 Marquette, Michigan 64.3 46.2 18.1 Milwaukee, Wisconsin 8 New London, Connecticut 75.8 68.3 7.5 Norfolk, Virginia 85.7 75.9 66.9 84.0 Portland, Maine 60.9 54.6 6.3 Portland, Maine 60.9 55.8 64.4 Savannah, Georgia 85.7 65.5	feet and	Average depth,	depth, temp	
Atlantic City, New Jorsey 77.0 69.4 7.6 Alpena, Michigan 72.6 63.5 9.1 Augusta, Georgia 86.0 70.4 16.4 Baltimore, Maryland 78.9 72.0 6.9 Block Island, Rhode Island 66.9 61.4 5.5 Buffalo, New York 76.0 69.0 7.0 68.7 63.1 5.6 Buffalo, New York 76.0 69.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7		touths. stut	at	
Alpena, Michigan				
Alpena, Michigan	12.1	12.1	72.2	
Augusta, Georgia	12.5	12.5	64.4	
Baltimore, Maryland	12.9	12.9	77.9	
Block Island, Rhode Island	11:9	11:9	74.4	
Boston, Massachusetts.	9.0	9.0	68.	
Buffato, New York	21.3	21.3	70.8	
Cedar Keys, Florida 85.0 80.3 5.3 Charleston, South Carolina 85.1 60.4 4.7 Chiengo, Illinois 72.7 67.0 5.7 Chiengo, Illinois 84.1 72.0 12.1 Chiencoteague, Virginia 84.1 72.0 12.1 Cleveland, Ohio 75.0 67.9 7.1 Detroit, Michigan 69.4 56.3 13.1 Eastport, Maine 51.3 46.6 4.7 Escanaba, Michigan 66.7 57.3 9.4 Galveston, Toxas 88.8 84.1 4.7 Grand Haven, Michigan 74.5 61.0 13.5 Indianola, Toxas* 8.5 82.7 81.0 4.7 Key Wost, Florida 85.7 81.0 4.7 Key Wost, Florida 85.7 81.0 4.7 Mackinaw City, Michigan 67.5 61.3 6.2 Macquette, Michigan 67.5 61.3 6.2 Macquette, Michigan 84.5 79.1	10.3	10.3	68.	
Charleston, South Carolina 85.1 60.4 4.7 Chicago, Illinois. 72.7 67.0 5.7 Chincoteague, Virginia 84.1 72.0 12.1 Cloveland, Ohio. 75.0 67.9 7.1 Detroit, Michigan. 72.9 67.8 5.1 Duluth, Minnesota 69.4 56.3 13.1 Eastport, Maine 51.3 46.6 4.7 Eastport, Maine 66.7 57.3 9.4 Galveston, Texas 88.8 84.1 4.7 Grand Hlaven, Michigan 74.5 61.0 13.5 Indianola, Texas* 89.5 82.7 6.8 Mackon, Fort, North Carolina 89.5 82.7 6.8 Macon, Fort, North Carolina 85.9 74.4 11.5 Marquette, Michigan 64.3 46.2 18.1 Milwaukee, Wiscousin* 84.5 79.1 5.4 New London, Connecticut 70.3 62.0 8.3 New London, Connecticut 70.3 62.	8.0		80.	
Chicago, Illinois. 72.7 67.0 5.7 Chincoteague, Virginia 84.1 72.0 12.1 Cleveland, Ohio 75.0 67.9 7.1 Detroit, Michigan 69.4 50.3 13.1 Eastport, Minnesota 69.4 50.3 13.1 Eastport, Maine 66.7 57.3 9.4 Galveston, Toxus 88.8 84.1 4.7 Grand Haven, Michigan 74.5 61.0 13.5 Indianola, Toxus 88.8 84.1 4.7 Grand Haven, Michigan 74.5 61.0 13.5 Indianola, Toxus 85.7 81.0 4.7 Eastport, Maine 85.7 81.0 4.7 Eastport, Michigan 85.7 Eastport, Michigan 85.7 Eastport, Michigan 85.9 74.4 11.5 Marquette, Michigan 85.9 74.4 11.5 Marquette, Michigan 85.9 74.4 11.5 Marquette, Michigan 84.2 18.1 Milwaukee, Wiscousin 85.9 74.4 11.5 Marquette, Michigan 84.5 79.1 5.4 New Haven, Connecticut 76.5 67.0 9.5 New York City 76.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Pensacola, Florida 86.5 81.3 5.2 Portland, Maine 90.5 Sandurky, Ohlo. 78.6 71.5 71.1 Sand Francisco, California 82.2 55.8 6.4 Savannah, Georgia 86.5 81.7 75.2 55.5 Santhville, North Carolina 84.8 86.2 8.6 Eastport,	38.2	38.2	79.	
Chincóteaguo, Virginia	9.1	9.1	71.2	
Cleveland, Ohio	3.5	3.5	74.	
Detroit, Michigan 72-9 67-8 5-1 Duluth, Minnesota 69-4 56-3 13.1 Eastport, Maine 51-3 46-6 4-7 Escansba, Michigan 68-7 57-3 9-4 Galveston, Toxas 88-8 84.1 4-7 Grand Haven, Michigan 74-5 61-0 13.5 Indianola, Toxas ** 88-7 81-0 4-7 Jacksonville, Florida 88-7 81-0 4-7 Key West, Florida 89-5 82-7 66-8 Mackinaw City, Michigan 67-5 61-3 6-2 Macon, Fort, North Carolina 88-9 74-4 11-5 Marquette, Michigan 64-3 46-2 18-1 Milwaukee, Wisconsin * 84-5 79-1 5-4 New Haven, Connecticut 76-5 67-0 9-5 New London, Connecticut 75-8 68-3 7-5 New London, Connecticut 75-8 68-3 7-5 Norfolk, Virginia 81-2 73-3 7-9 Pornsacola, Florida 86-5 81-3 5-2 Portland, Maine 60-9 54-6 6-3 Portland, Oregon 75-4 66-9 8-1 Sandusky, Ohlo 78-6 78-6 78-6 Sandusky, Ohlo 78-6 78-6 5-5 Sant Francisco, California 82-2 5-5 Sant Francisco, California 84-6 76-2 5-5 Smitthville, North Carolina 84-6 76-2 5-5 Smitthville, North Carolina 84-8 76-2 5-5 Smitthville, North Carolina 84-6 76-2 5-5 Smitthville, North Carolina 84-6 76-2 5-5 Sevannah, Georgia 86-2 8-6	14.0		69.0	
Duluth, Minnesota 69.4 56.3 13.1 Eastport, Maine 51.3 46.6 4.7 Escaushi, Michigan 66.7 57.3 9.4 Galveston, Toxus 88.8 84.1 4.7 Grand Haven, Michigan 74.5 61.0 13.5 Indianola, Toxus* 89.5 82.7 6.8 Jacksonville, Floridu 89.5 82.7 6.8 Muckinaw City, Michigan 67.5 61.3 6.2 Macon, Fort, North Carolina 85.9 74.4 11.5 Marquette, Michigan 64.3 46.2 18.1 Milwaukee, Wisconsin* 84.5 79.1 5.4 New Haven, Connecticut 70.3 62.0 8.3 New London, Connecticut 70.3 62.0 8.3 New York City 75.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Porstand, Orogon 75.4 64.4 9.0 Sandurky, Ohlo. 78.6 71.5 71.1 Sandy Hook, New Jersey 75.0 66.9 8.1 Sandy Hook, New Jersey 75.0 66.9 8.1 Santhynile, North Carolina 86.5 81.7 76.2 5.5 <td>26.6</td> <td>26.6</td> <td>71.</td>	26.6	26.6	71.	
Eastport, Maine	9.6	9.6	66.	
Escanaba, Michigan 66,7 57,3 9,4 Galveston, Toxas 88,8 84,1 4,7 Grand Haven, Michigan 74,5 61,0 13,5 Indianola, Toxas 85,7 81,0 4,7 Indianola, Toxas 89,5 82,7 6,8 Mackinaw City, Michigan 67,5 61,3 6,2 Macon, Fort, North Carolina 85,9 74,4 11,5 Marquette, Michigan 64,3 46,2 18,1 Milwaukee, Wisconsin 84,5 79,1 5,4 New Haven, Connecticut 76,5 67,0 9,5 New London, Connecticut 70,3 62,0 8,3 New York City 78,8 68,3 7,5 Norfolk, Virginia 81,2 73,3 7,9 Ponsacola, Florida 86,5 81,3 5,2 Portland, Maine 60,9 54,6 6,3 Portland, Orogon 75,4 66,4 9,0 Sandurky, Ohlo 78,6 71,5 7,1 Sandy Hook, New Jersey 75,0 66,9 8,1 Savannah, Georgia 81,7 76,2 5,5 Samithville, North Carolina 84,8 76,2 8,6	16.7	16.7	60.	
Galveston, Texas 88.8 84.1 4.7	18.2	18.2		
Grand Haven, Michigan 74.5 61.0 13.5 Indianola, Toxas* 85.7 81.0 4.7 Jacksonville, Florida 85.7 82.7 6.8 Mackinaw City, Michigan 67.5 61.3 6.2 Macon, Fort, North Carolina 85.9 74.4 11.5 Marquette, Michigan 64.3 46.2 18.1 Milwaukee, Wisconsin* 84.5 79.1 5.4 Mobile, Alabana 84.5 79.1 5.4 New Haven, Connecticut 76.5 67.0 9.5 New London, Connecticut 70.3 62.0 8.3 New York City 75.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Pensacola, Florida 86.5 81.3 5.2 Portland, Orogon 75.4 66.4 9.0 Sandurky, Ohlo. 78.6 71.5 7.1 Sandy Hook, New Jersey 75.0 66.9 8.1 Savannah, Georgia 81.7 70.2 <td< td=""><td>13.2</td><td>13.2</td><td>65.</td></td<>	13.2	13.2	65.	
Jacksonville, Florida	19.0	19.0	65.	
Key West, Florida 89.5 82.7 6.8 Mackinaw City, Michigan 67.5 61.3 6.2 Macon, Fort, North Carolina 85.9 74.4 11.5 Marquette, Michigan 64.3 46.2 18.1 Milwaukee, Wisconsin ** 84.5 79.1 5.4 Mobile, Alabama 84.5 79.1 5.4 New London, Connecticut 70.3 62.0 8.3 New London, Connecticut 70.3 62.0 8.3 New York City 75.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Pensacola, Florida 86.5 81.3 5.2 Portland, Maine 60.9 54.6 6.3 Portland, Orogon 75.4 66.4 9.0 Sandurky, Ohlo 78.6 71.5 7.1 Sandy Hook, New Jersey 75.0 66.9 8.1 Savannah, Georgia 81.7 76.2 5.5 Sawannah, Georgia 82.2 55.8 <tr< td=""><td>18.0</td><td></td><td></td></tr<>	18.0			
Mackinsw City, Michigan 67.5 61.3 6.2 Macon, Fort, North Carolina 85.9 74.4 11.5 Marquette, Michigan 64.3 46.2 18.1 Milwaukee, Wisconsin * 84.5 79.1 5.4 Mobile, Alabama 84.5 79.1 5.4 New Haven, Connecticut 76.5 67.0 9.5 New London, Connecticut 70.3 62.0 8.3 New York City 75.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Porsacola, Florida 86.5 81.3 5.2 Portland, Maine 60.9 54.6 6.3 Portland, Orogon 75.4 66.4 9.0 Sandusky, Ohlo 78.6 71.5 7.1 Sandy Hook, New Jersey 75.0 66.9 8.1 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 86.2 2.5	18.6		80.	
Macon, Fort, North Carolina 85.9 74.4 11.5 Marquette, Michigan 64.3 46.2 18.1 Milwaukee, Wisconsin ** 84.5 79.1 5.4 Mobile, Alabama 84.5 79.1 5.4 New Haven, Connecticut 76.5 67.0 9.5 New London, Connecticut 70.3 62.0 8.3 New York City 75.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Pensacola, Florida 86.5 81.3 5.2 Portland, Maine 60.9 54.6 6.3 Portland, Oregon 75.4 66.4 9.0 Sandukky, Ohlo 78.6 71.5 7.1 Sandy Hook, New Jersey 75.0 66.9 8.1 Savannah, Georgia 81.7 76.2 5.5 Sawannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	10.0		85.	
Marquette, Michigan 64.3 46.2 18.1 Milwaukee, Wiscousin * 84.5 79.1 5.4 Mobile, Alabama 84.5 79.1 5.4 New Haven, Connecticut 76.5 67.0 9.5 New London, Connecticut 70.3 62.0 8.3 New York City 75.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Pensacola, Florida 86.5 81.3 5.2 Portland, Maine 60.9 54.6 6.3 Portland, Orogon 75.4 66.4 9.0 Sandursky, Ohlo 78.6 71.5 7.1 Sandy Hook, New Jersey 75.0 66.9 8.1 Savannah, Georgia 62.2 55.8 6.4 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	11.9		64.	
Milwaukee, Wiscousin * 84.5 79.1 5.4 Mobile, Alabama 84.5 79.1 5.4 New Haven, Connecticut 76.5 67.0 9.5 New London, Connecticut 70.3 62.0 8.3 New York City 75.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Ponsacola, Florida 86.5 81.3 5.2 Portland, Maine 60.9 54.6 6.3 Portland, Orogon 75.4 66.4 9.0 Sandusky, Ohlo 78.6 71.5 7.1 Sandy Hook, New Jersey 75.0 66.9 8.1 Savannah, Georgia 62.2 55.8 6.4 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	12.0		78.	
Mobile, Alabana 84.5 79.1 5.4 New Haven, Connecticut 76.5 67.0 9.5 New London, Connecticut 70.3 62.0 8.3 New York City 75.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Pensacola, Florida 86.5 81.3 5.2 Portland, Maine 60.9 54.6 6.3 Portland, Oregon 75.4 66.4 9.0 Sandunky, Ohlo 78.6 71.5 7.1 Sandy Hook, New Jersey 75.0 66.9 8.1 Savannah, Georgia 62.2 55.8 6.4 Savannah, Georgia 81.7 70.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	12.0	12.0	64.	
New Haven, Connecticut 76.5 67.0 9.5 New London, Connecticut 70.3 62.0 8.3 New York City 75.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Pensacola, Florida 86.5 81.3 5.2 Portland, Maine 60.9 54.6 6.3 Portland, Orogon 75.4 66.4 9.0 Sanduaky, Ohlo 78.6 71.5 7.1 Sandy Hook, New Jersey 75.0 66.9 8.1 Savannah, Georgia 81.7 76.2 5.5 Smitthville, North Carolina 84.8 76.2 8.6	17.7	17.7	78.	
New London, Connecticut 70.3 62.0 8.3 New York City 75.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Ponsacola, Florida 86.5 81.3 5.2 Portland, Maine 60.9 54.6 6.3 Portland, Orogon 75.4 66.4 9.0 Sandusky, Ohlo 78.6 71.5 7.1 Sundy Hook, New Jersey 75.0 66.9 8.1 San Francisco, California 62.2 55.8 6.4 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carollina 84.8 76.2 8.6	16.6		70.	
New York City 75.8 68.3 7.5 Norfolk, Virginia 81.2 73.3 7.9 Ponsacola, Florida 86.5 81.3 5.2 Portland, Maine 60.9 54.6 6.3 Portland, Oregon 75.4 66.4 9.0 Sandunky, Ohlo 78.6 71.5 7.1 Sandy Hook, New Jersey 75.0 66.9 8.1 San Francisco, California 62.2 55.8 6.4 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	13.4		70.	
Norfolk, Virginia 81.2 73.3 7.9 Ponsacola, Florida 86.5 81.3 5.2 Portland, Maine 60.9 54.6 6.3 Portland, Oregon 75.4 66.4 9.0 Sandusky, Ohlo 78.6 71.5 7.1 Sandy Hook, New Jersey 75.0 66.9 8.1 San Francisco, California 62.2 55.8 6.4 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	16.2		72.	
Pensacola, Florida 86.5 81.3 5.2 Portland, Maine 60.9 54.6 6.3 Portland, Oregon 75.4 66.4 9.0 Sandusky, Ohlo 78.6 71.5 7.1 Sundy Hook, New Jersey 75.0 66.9 8.1 San Francisco, California 62.2 55.8 6.4 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	16.5		76.	
Portland, Maine 60.9 54.6 6.3 Portland, Orogon 75.4 66.4 9.0 Sandukky, Ohlo 78.6 71.5 7.1 Sundy Hook, New Jersey 75.0 66.9 8.1 San Francisco, California 62.2 55.8 6.4 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	17.5		80.	
Portland, Oregon 75.4 66.4 9.0 Sandusky, Ohlo 78.6 71.5 7.1 Sundy Hook, New Jersey 75.0 66.9 8.1 San Francisco, California 62.2 55.8 6.4 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	16.9		66.	
Sandusky, Ohlo 78.6 71.5 7.1 Bundy Hook, New Jersey 75.0 66.9 8.1 San Francisco, California 62.2 55.8 6.4 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	54.0		67.	
Sandy Hook, New Jersey 75.0 66.9 8.1 San Francisco, California 62.2 55.8 6.4 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	11.4		71.0	
San Francisco, California 62.2 55.8 6.4 Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	13.6		72.	
Savannah, Georgia 81.7 76.2 5.5 Smithville, North Carolina 84.8 76.2 8.6	37.1		59	
Smithville, North Carolina	10.5		80.	
	10.8	10.8	79	
	13.5		71.4	
Toledo, Ohio	10.3		78.	

· Observations temporarily suspended.

WINDS.

The most frequent directions of the wind during July, 1886, are shown on chart ii by the arrows flying with the wind; they are also given in the table of miscellaneous meteorological data. In the Gulf States and Florida the prevailing direction of the wind is from the south; in the south Atlantic states from the southwest. In all other districts it is variable.

HIGH WINDS.

[In miles per hour.]

Wind-velocities of fifty or more miles per hour were recorded

during the month, as follows:
Mount Washington, New Hampshire, 70, w., 6th; 82, w., 7th; 64, nw., 8th; 59, nw., 10th; 66, w., 11th; 70, w. 12th; 55, se., 14th; 65, se., 15th; 84, sw., 16th; 59, w., 19th; 59, w., 20th; 59, nw., 22d; 58, nw., 23d; 65, nw., 24th; 50, nw., 27th; 50,

w., 29th; 62, w., 30th.
Pike's Peak, Colorado, 61, w., 1st.
Nashville, Tennessee, 75, nw., 10th.

Key West, Florida, 52, sw., 18th.

Fort Elliott, Texas, 64, nw., 19th. Fort Assinaboine, Montana, 59, w., 26th. Sandy Hook, New Jersey, 72, nw., 30th.